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# State of Utah

DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH

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Salt Lake City, Utah 84116-0690  
(801) 538-6121

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MINERALS PROGRAM  
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OCT 15 1990

OCTOBER 12, 1990  
DIVISION OF  
OIL, GAS & MINING

Mr. Glen M. Eurick  
Environmental Affairs Coordinator (USA)  
Barrick Mercur gold Mine  
P.O. Box 838  
Tooele, Utah 84074

RE: Conditional Approval of Subsurface Water  
Quality Q.A./Q.C. Plan for Dump Leach #3;  
Ground Water Quality Discharge Permit  
No. UGW450001

Dear Mr. Eurick:

We have reviewed your revised sampling plan dated August 8, 1990.

The plan is hereby approved, in accordance with the following conditions:

1. All laboratory analyses required by the permit are to be conducted by a laboratory certified for each analyte or groups of analytes by the State Health Laboratory under either the Clean Water Act, Safe Drinking Water Act, or the Resource Conservation and Recovery Act. It is Barrick's obligation to ensure all analyses are conducted by a laboratory which meets these criteria.
2. All ground water samples will be filtered in the field for dissolved analysis, unless ground water turbidity at the time of collection is equal to or less than 5 NTU, then only total analysis may be conducted at Barrick's discretion.
3. Total Cyanide analysis will be conducted using Standard Methods 4500-CN-E (17th Ed.), achieving a minimum detection limit of 0.02 mg/l, in accordance with Part I E(7)(b)(2)(ii) of the permit.
4. Nickel analysis will be preceded by acid digestion and sample concentration in accordance with Standard Methods 3030 D (17th Ed.), followed by analysis by EPA Method 249.1; achieving a minimum detection limit of 0.01 mg/l in accordance with Part I E(7)(b)(2)(ii) of the permit.

Mr. Glen Eurick  
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As per Part I H(1) of the permit this approved plan is to become Appendix A of the permit. Please modify the sampling plan to address the above conditions, and resubmit a final copy of the plan, for our inclusion into the final permit. This change and other minor permit modifications you brought to our attention in your letter of August 1, 1990, will be made shortly.

If you have any questions or comments, please contact Loren Morton at 538-6146. We appreciate your continued compliance.

Sincerely,

Utah Water Pollution Control Committee



Don A. Ostler, P.E.  
Executive Secretary

cc: Terry VanDell, Dames & Moore  
Rex Henderson, Chemtech  
Wayne Hedberg, DOGM  
Matt Trujillo, Tooele County Health Dept.

LBM:kc  
Q:BMD3SQA.LTR